

# ESL Manganese 9%

Formulation for the Correction of Manganese Deficiencies in Crops

## GUARANTEED ANALYSIS:

Sulfur (S) .....70%  
70% Combined Sulfur (S)  
Manganese (Mn) .....9.0%  
9.0% Water Soluble Manganese (Mn)

Derived from Manganese (II) sulfate monohydrate.  
F002597

Density: 11.0 lbs./gal @ 68° F

Net Contents and Net Weights:

- 1 U.S. GALLON (3.8 Liters) and 11.0 lbs. (5.0 kg)       275 U.S. GALLONS (1040.9 Liters) and 3025.0 lbs. (1375.0 kg)
- 2.5 U.S. GALLONS (9.5 Liters) and 27.5 lbs. (12.5 kg)       BULK
- 30 U.S. GALLONS (113.6 Liters) and 330.0 lbs. (150.0 kg)       TANKER
- 55 U.S. GALLONS (208.2 Liters) and 605.0 lbs. (275.0 kg)

## KEEP OUT OF REACH OF CHILDREN WARNING • AVISO

### HAZARD STATEMENTS

Causes serious eye irritation.  
Harmful if swallowed, inhaled, or absorbed through skin.  
Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield, or safety glasses).  
Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.



If you do not understand this label, find someone to explain it to you in detail. (Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle)

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15 to 20 minutes. Call a poison control center or doctor for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact INFOTRAC 1-800-535-5053 for emergency medical treatment.

**PRECAUTIONARY STATEMENTS:** Do not get in eyes, on skin or on clothing. Wash hands, forearms, and other exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wear impervious gloves, protective clothing, and eye protection (goggles, face shield, or safety glasses). Do not breathe vapors, mist, or spray.

**ENVIRONMENTAL PRECAUTIONS:** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers, or watercourses.

### BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITIES AND REMEDIES.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a safe place away from pets and keep out of the reach of children. Store away from excessive heat. ESL Manganese 9% will freeze. Always store ESL Manganese 9% above 40 degrees F (Do not Freeze). Freezing may cause product separation.

**DISPOSAL CONSIDERATIONS:** Dispose of in accordance with local/regional/national regulations.

#### ADDITIONAL INFORMATION

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.html>

#### GENERAL INFORMATION

ESL Manganese 9% is a 9% manganese formulation that will correct manganese deficiencies when used at an optimum rate of application. Use rates may vary based on soil and plant analysis testing. Follow soil tests or plant tissue tests to determine the correct amount of ESL Manganese 9% to apply.

### DIRECTIONS FOR USE

Read and follow all directions on this label prior to use.

Do not mix with AMS.

Perform a jar test to check compatibility with other products prior to mixing.

### MIXING INSTRUCTIONS

1. Add 1/3 volume of water or fertilizer in tank and then turn on agitation.
2. Add required amount of ESL Manganese 9%.
3. Add any other pesticide to the tank.
4. Fill tank with balance of water or fertilizer while maintaining agitation.
5. Agitate adequately for uniformity of solution before applying.

### RECOMMENDED RATES

Row or Band:	1-2 quarts per acre before or at planting
Broadcast:	2-2.5 quarts per acre mixed into the top few inches of soil
Foliar:	1-2 pints per acre

Lower rates should be used on field, row, or vegetable crops. Higher rates should be used for fruit, nut, and vine crops. When rates of over 2 quarts are called for, split or multiple applications of the total amount needed are preferred. Applications should be separated by a minimum of 10-14 days.

**Aerial application:** Normal rate is 1-2 pints ESL Manganese 9% per acre in 5 gallons of water per application

**Drip application:** The required amount of ESL Manganese 9% should be applied over the growing season of the crop via multiple applications 1-2 weeks apart.

If you have any questions regarding mixing or application rates, contact your Earth Science Laboratories' dealer before using this product.

Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

DISCLAIMER: Always refer to the label on the product before using ESL Manganese 9% or any other product.



#### Manufactured by:

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### IMPORTANT READ BEFORE USING LIMITED WARRANTY AND LIMITATION OF REMEDIES

Read the entire Directions for Use, Limited Warranty and Limitation of Remedies (including limitations on liability) before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

The Directions for Use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Earth Science Laboratories, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

To the extent consistent with applicable law, seller warrants that the product conforms to the chemical description and is reasonably fit

for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under conditions not foreseeable to the seller. To the extent consistent with applicable law, the seller shall not be liable for more than the cost of this product to the buyer and will in no event be liable for any consequential, special or indirect damages connected with the use or handling of this product. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied. Seller makes no warranty for product which has been frozen.

**Always read the label on the product for current and accurate information.**